



# **NDIA “Sea Shield”**

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COMTHIRDFLEET J9**

**Statement A: Approved  
for public release;  
distribution is unlimited**



# Agenda



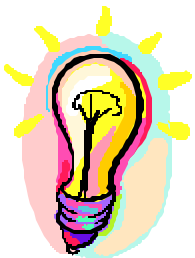
- **Sea Trial Process**
  - Integrating experimentation and Fleet training
- **Sea Trial Organization**
- **Sea Trial Initiatives**
  - Tactical UAV (T-UAV)
  - Automated Identification System (AIS)
  - Biometrics
  - Spartan Scout
  - Under Sea Warfare-Decision Support System (USW-DSS)
  - Sea Fighter (FSF-1)
- **Challenges**



# Sea Trial Process

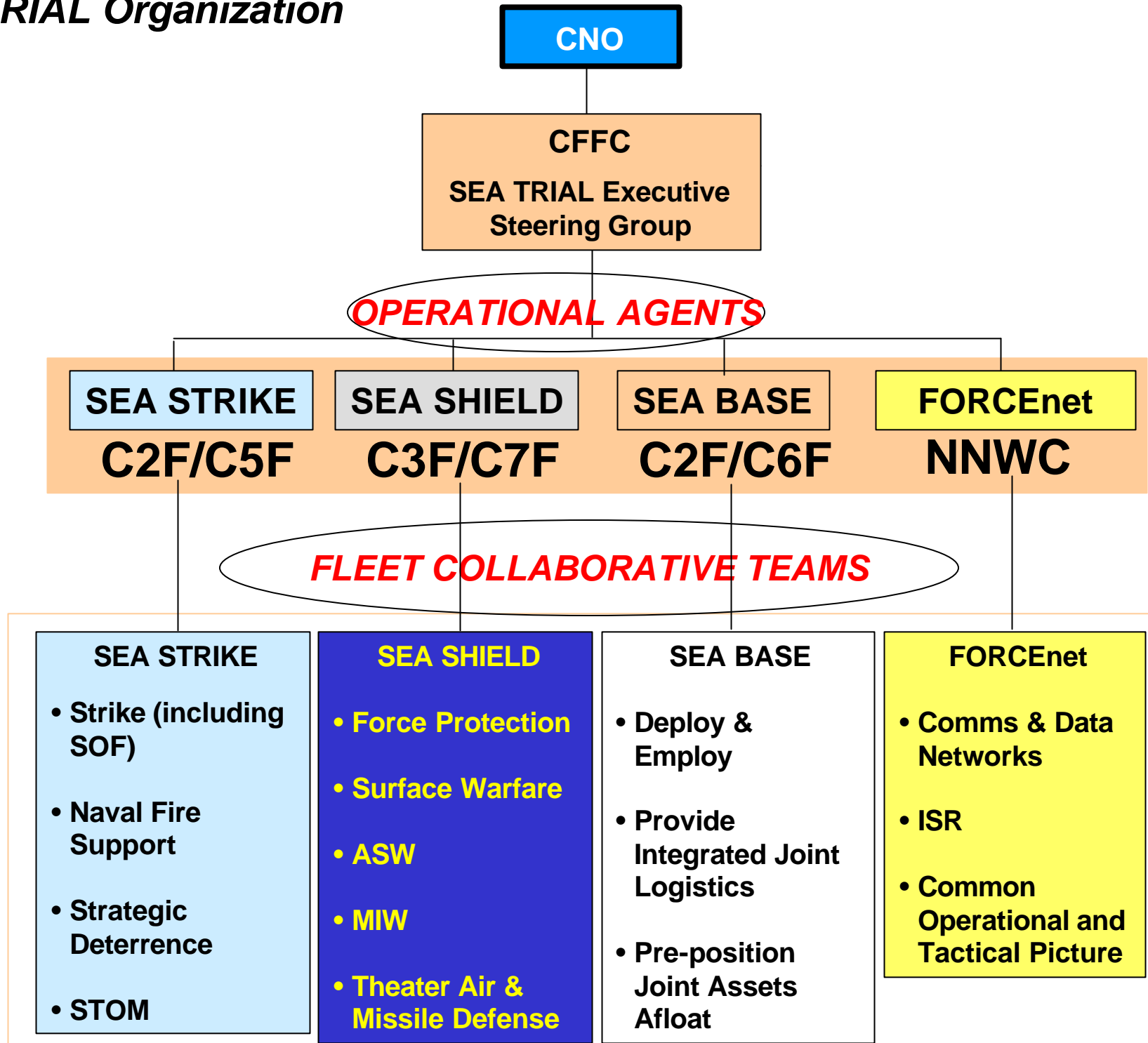
## Navy's *Fleet* Experimentation Program

- Rapid technology transition to the Fleet
- Leverage Fleet exercises to conduct experimentation
  - Conservation of resources
- Experimentation based on Fleet priorities



→ FCT → OA → MUA → FFC → OPNAV

# SEA TRIAL Organization

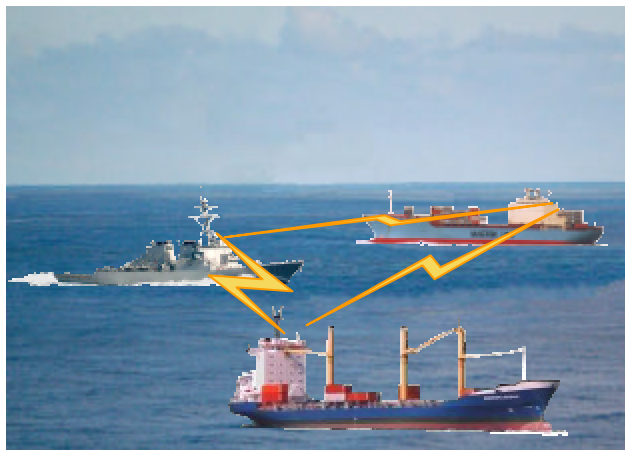




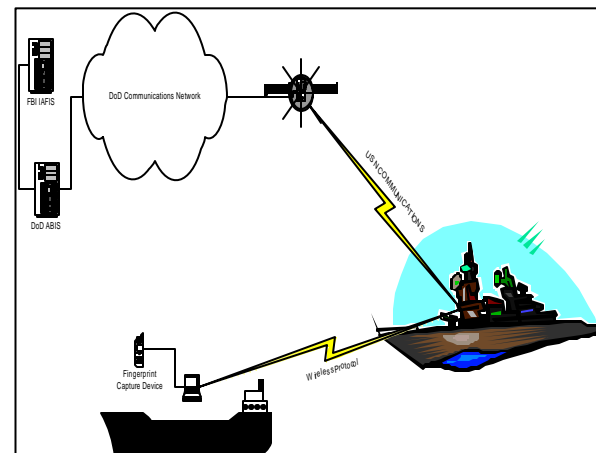
# SEA TRIAL INITIATIVES



T-UAV



AIS



Biometrics



Spartan Scout



USW-DSS



Sea Fighter

***Goal: Rapid Technology Insertion Into Warfighting Capabilities***



# T-UAV



## T-UAV

- Onboard USS Cleveland
- ISR
- E-MIO
- MDA



**Stove Pipe System**



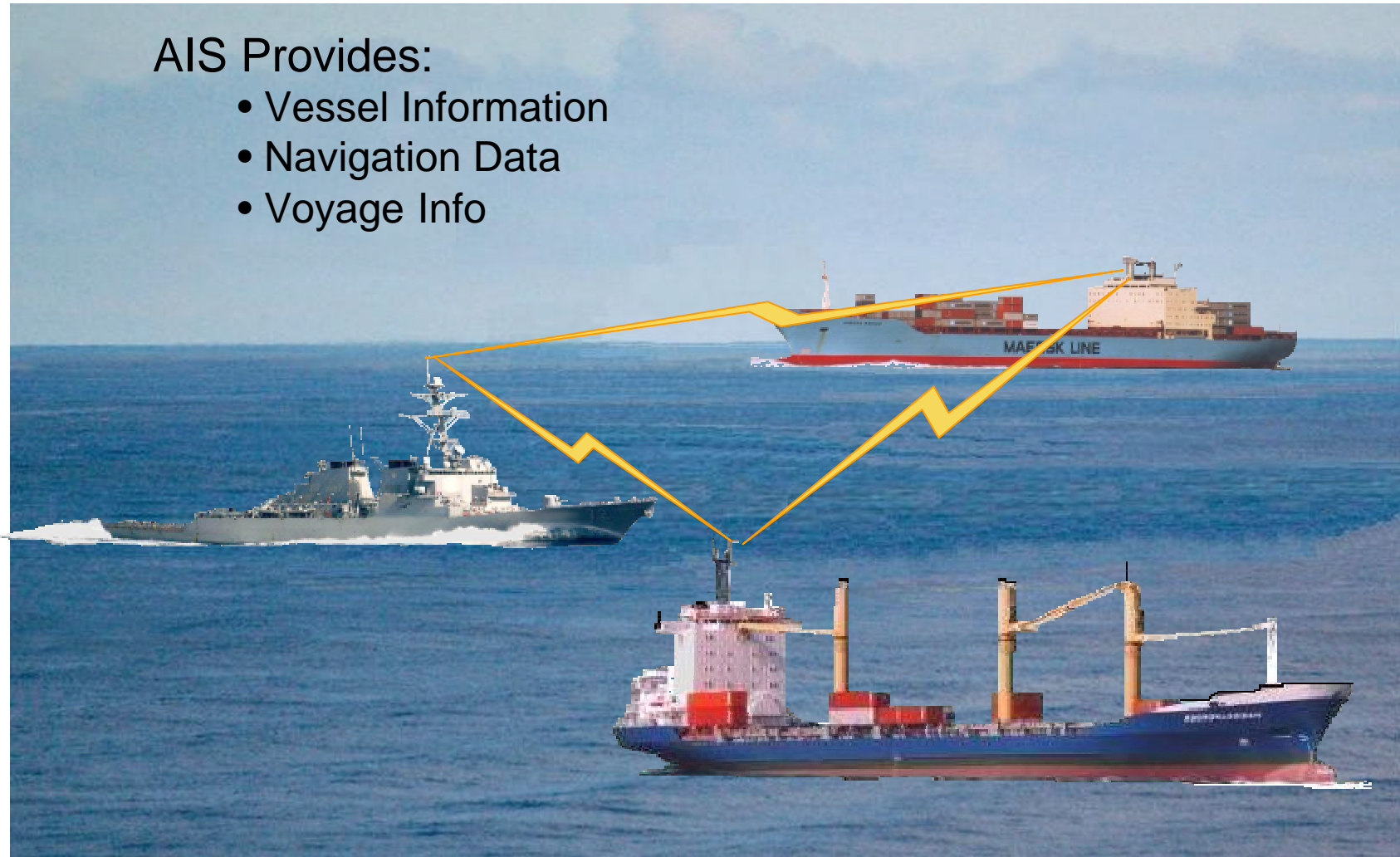


# AIS



AIS Provides:

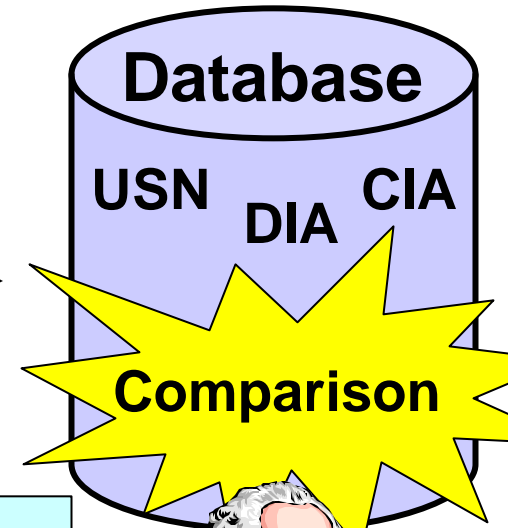
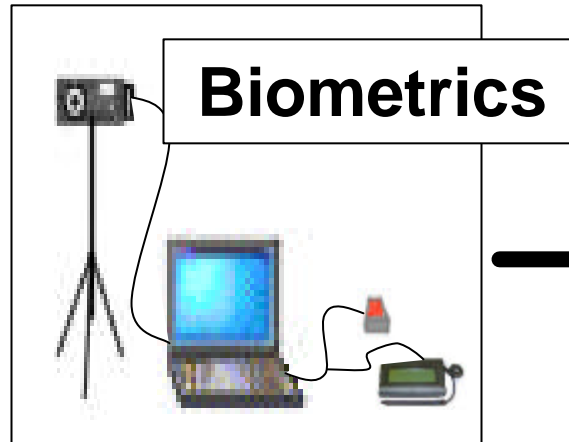
- Vessel Information
- Navigation Data
- Voyage Info



**Integration of AIS into GCCS**



# Biometrics



## Concept :

- **ID Threat via Biometrics Capability.**
  - Support Global War on Terrorism by identifying suspects that are considered a threat or possible threat to US Security.
  - Create capability to ID Unique Human Characteristics (Finger prints, shape and size of hands, detailed view of iris, and other distinguishing features.)

**Wireless Integration into ISNS (LAN)**





# Spartan Scout



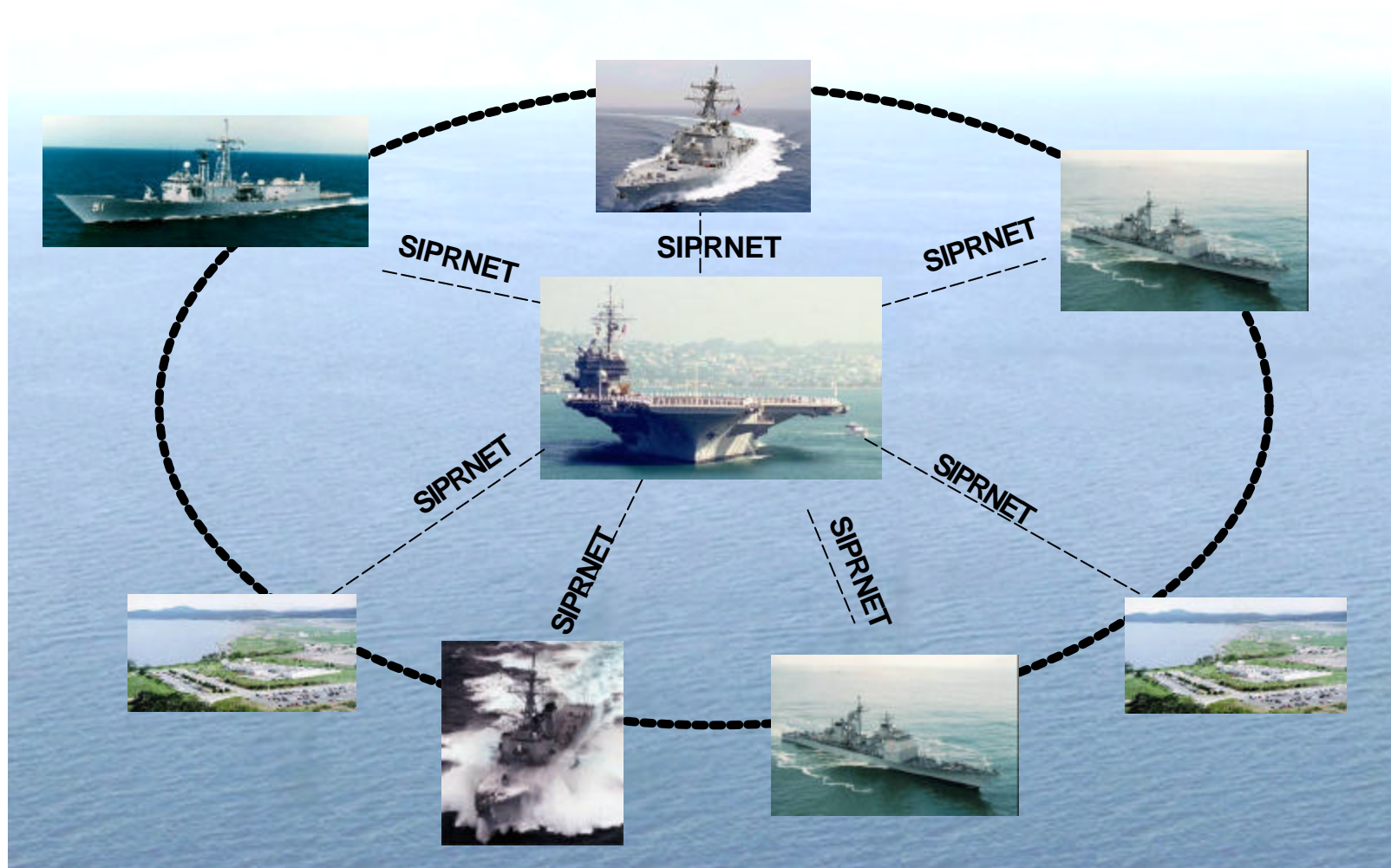
- Interoperable with Joint and Coalition Forces
- Conduct FP, ISR, MIW, and ASW Missions
- Waterspace Preparation
- Minimize or eliminate risk to personnel



**UV Communications/Control**



# *Under Sea Warfare - Decision Support System (USW-DSS)*



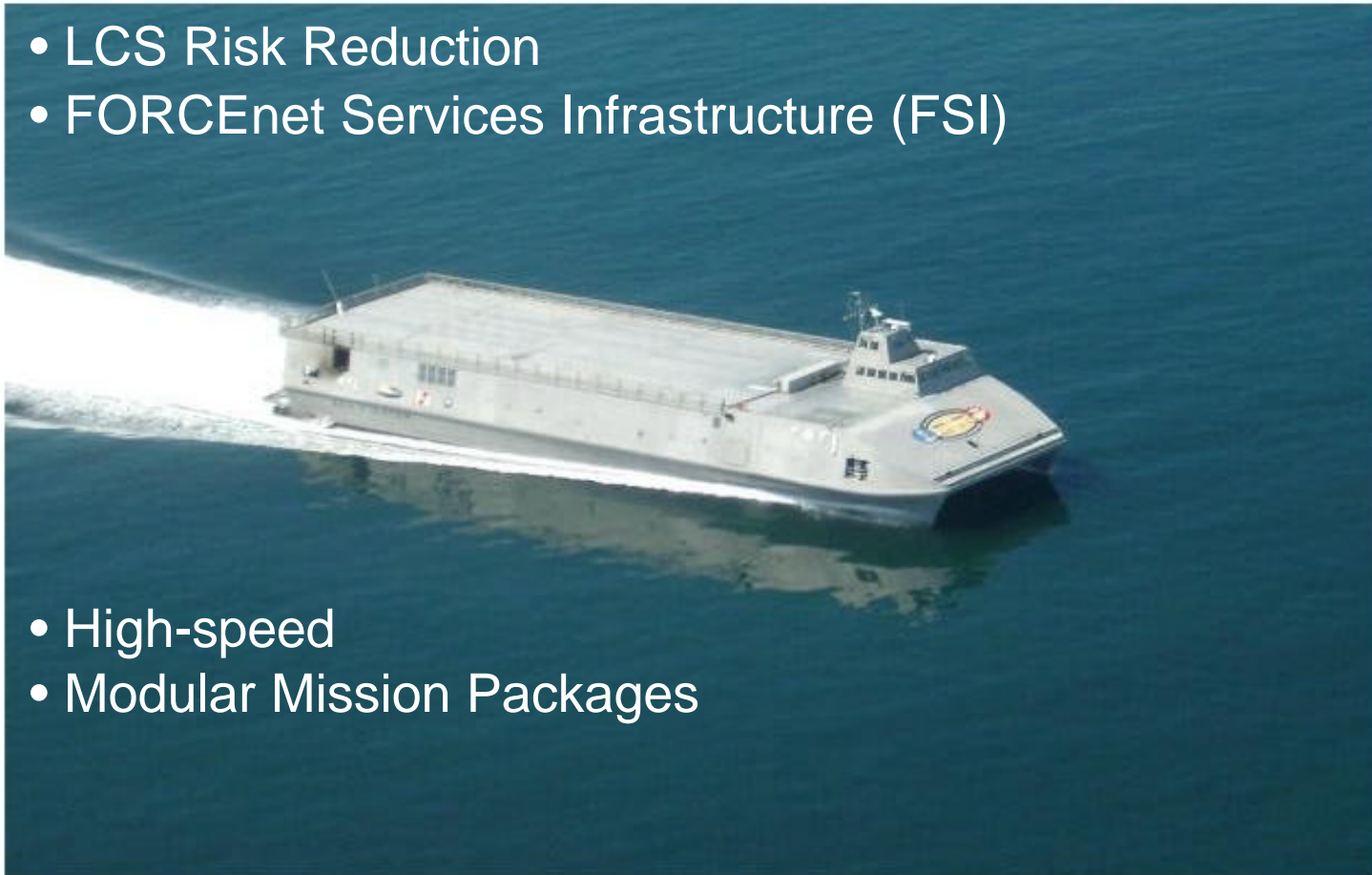
**Stand Alone System**



# Sea Fighter



- LCS Risk Reduction
- FORCEnet Services Infrastructure (FSI)



- High-speed
- Modular Mission Packages

**Bandwidth Constraints**



# Challenges

- **Sea Trial Process – “The First Step”**
- **Stove Pipe/Stand Alone Systems**
- **Bandwidth Constraints/Management**
- **Command & Control (C2)**

***Sea Shield — Winning the Fight***

***Sea Trial — Bridging to the Future***